

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P841796

Luminaire Tested: **ARCH4-230-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30436 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

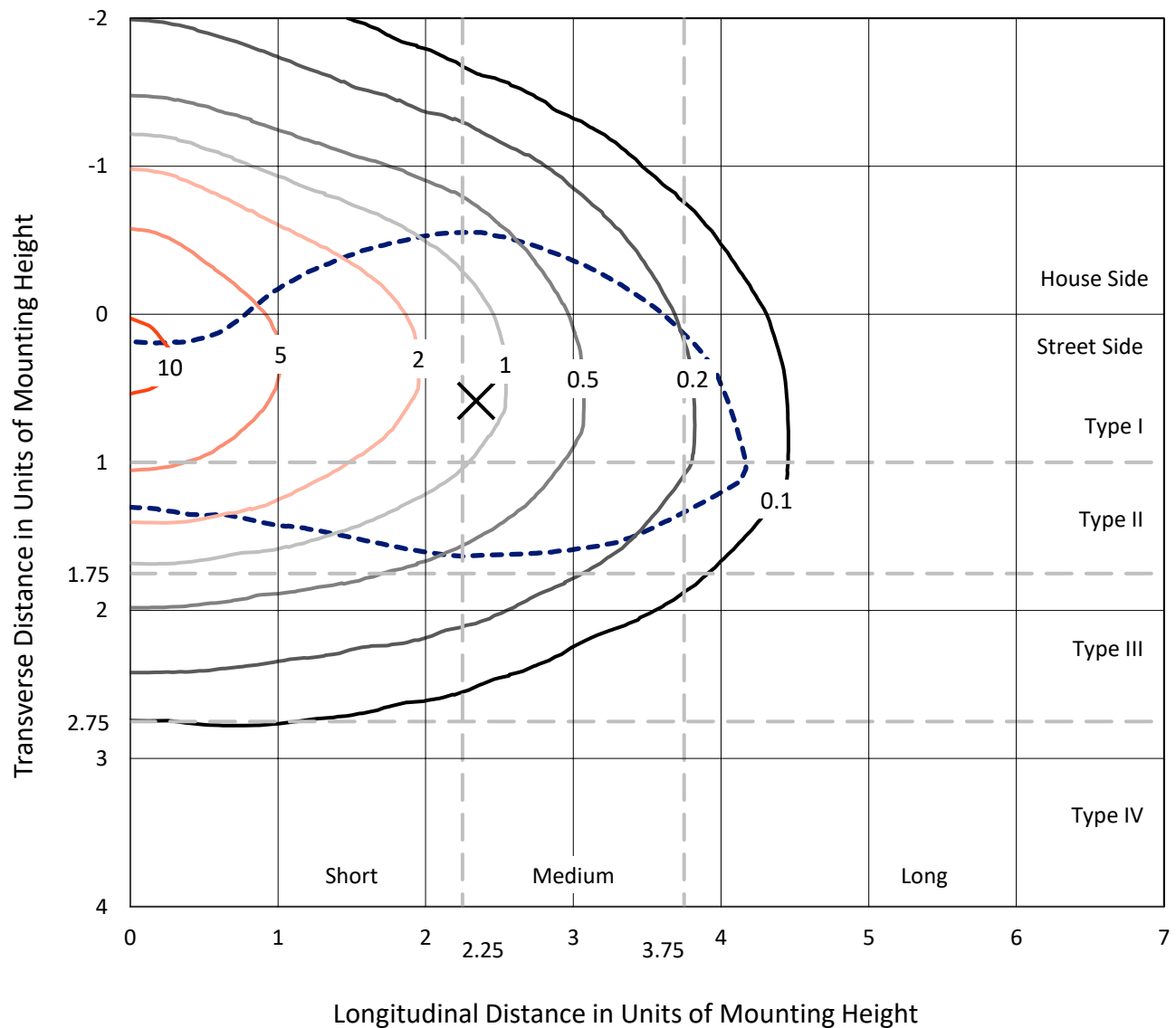


REPORT NUMBER: P841796

CATALOG NUMBER: ARCH4-230-722-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

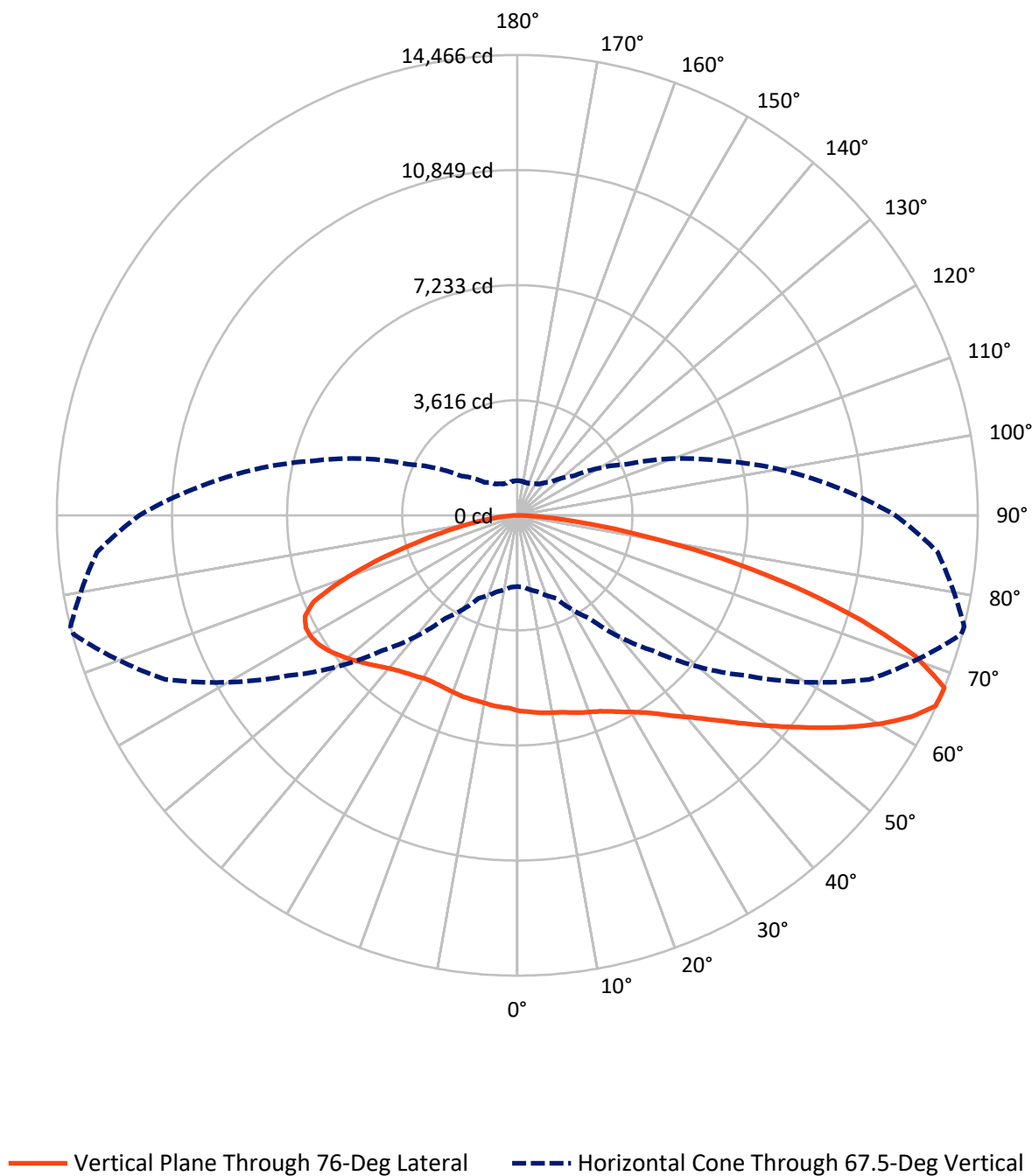
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Medium - N/A

REPORT NUMBER: P841796
CATALOG NUMBER: ARCH4-230-722-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841796

CATALOG NUMBER: ARCH4-230-722-U-T2U

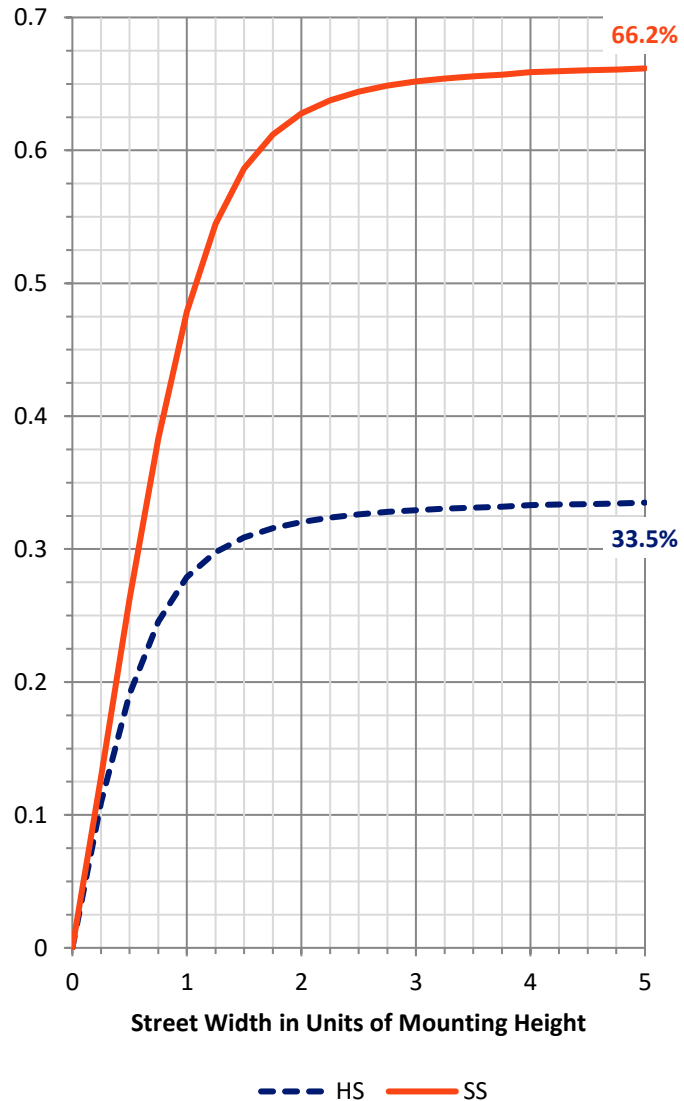
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10284.5	0.0	10284.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	20151.5	0.0	20151.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	30436.0	0.0	30436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	1.9
10°-20°	1812.4	6.0
20°-30°	3079.3	10.1
30°-40°	4381.5	14.4
40°-50°	5533.7	18.2
50°-60°	5991.2	19.7
60°-70°	5572.5	18.3
70°-80°	2992.9	9.8
80°-90°	479.6	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30436.0	100.0
0°-180°	30436.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841796

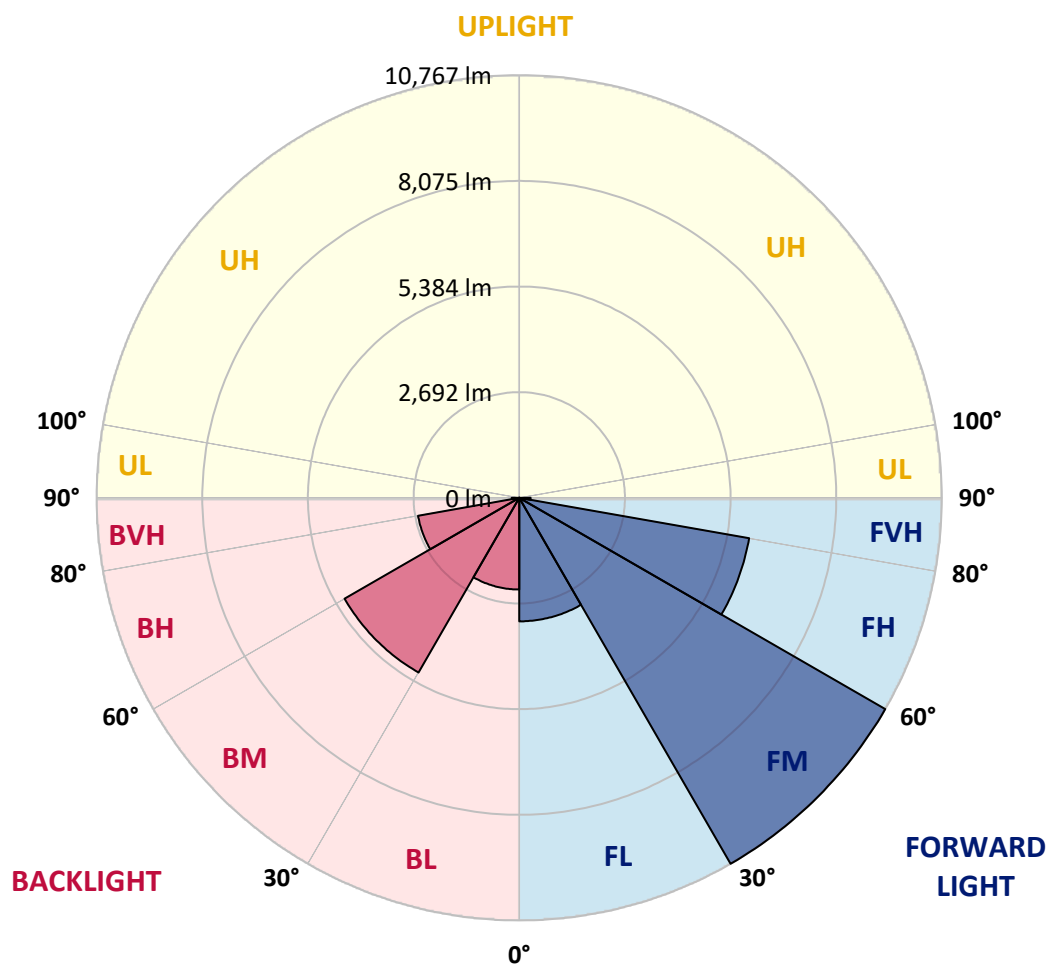
CATALOG NUMBER: ARCH4-230-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3147.4	10.3			
FM	(30°-60°)	10767.1	35.4			
FH	(60°-80°)	5946.9	19.5			G3/7500
FVH	(80°-90°)	290.1	1.0			G3/500
BL	(0°-30°)	2337.2	7.7	B3/2500		
BM	(30°-60°)	5139.3	16.9	B4/8500		
BH	(60°-80°)	2618.5	8.6	B4/5000		G4/5000
BVH	(80°-90°)	189.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



REPORT NUMBER: P841796

CATALOG NUMBER: ARCH4-230-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0
2.5°	6334.5	6323.2	6278.0	6283.6	6283.6	6278.0	6210.2	6181.9	6181.9	6176.3	6114.1
5°	6560.5	6543.6	6492.7	6481.4	6458.8	6430.5	6323.2	6261.0	6232.8	6227.1	6142.4
7.5°	6826.1	6803.5	6741.3	6707.4	6650.9	6577.5	6441.8	6345.8	6278.0	6272.3	6153.7
10°	7091.7	7069.1	6995.6	6933.5	6854.3	6735.7	6560.5	6419.2	6311.9	6300.6	6159.3
12.5°	7408.1	7385.5	7295.1	7216.0	7097.3	6939.1	6707.4	6515.3	6368.4	6351.4	6176.3
15°	7741.5	7707.6	7617.2	7526.8	7379.9	7176.4	6899.6	6645.3	6458.8	6430.5	6227.1
17.5°	8018.4	7973.2	7899.7	7809.3	7645.5	7408.1	7091.7	6775.2	6543.6	6521.0	6278.0
20°	8255.7	8221.8	8142.7	8058.0	7882.8	7622.8	7272.5	6905.2	6622.7	6594.4	6317.5
22.5°	8481.8	8436.6	8391.3	8329.2	8137.1	7848.9	7481.6	7063.4	6724.4	6690.5	6368.4
25°	8741.7	8690.8	8673.9	8640.0	8414.0	8120.1	7735.9	7261.2	6865.6	6826.1	6458.8
27.5°	9063.8	9007.3	8973.4	8973.4	8702.1	8397.0	8007.1	7492.9	7029.5	6995.6	6571.8
30°	9402.8	9335.0	9284.2	9284.2	8979.0	8673.9	8272.7	7724.6	7216.0	7176.4	6718.7
32.5°	9702.3	9634.5	9578.0	9572.4	9255.9	8950.8	8549.6	7978.8	7442.0	7391.2	6899.6
35°	9934.0	9871.8	9821.0	9832.3	9532.8	9233.3	8860.4	8317.9	7724.6	7668.1	7136.9
37.5°	10075.3	10052.7	10024.4	10064.0	9787.1	9504.5	9182.5	8645.6	8046.7	7995.8	7430.7
40°	10148.7	10131.8	10244.8	10295.6	10001.8	9747.5	9504.5	8984.7	8397.0	8340.5	7769.8
42.5°	10256.1	10397.4	10442.6	10431.3	10160.0	9934.0	9798.4	9352.0	8809.5	8758.6	8176.6
45°	9871.8	9837.9	10086.6	10222.2	10171.3	10052.7	10075.3	9792.7	9289.8	9239.0	8645.6
47.5°	9357.6	9312.4	9453.7	9787.1	9984.9	10097.9	10323.9	10250.4	9843.6	9798.4	9193.8
50°	8272.7	8334.8	8860.4	9306.8	9696.7	10086.6	10533.0	10742.1	10453.9	10408.7	9781.4
52.5°	7069.1	7131.2	7679.4	8707.8	9346.3	10001.8	10685.5	11233.7	11115.0	11064.1	10408.7
55°	6193.2	6328.8	6950.4	7696.3	8849.1	9736.2	10776.0	11736.6	11827.0	11781.8	11092.4
57.5°	5323.0	5424.7	5893.7	6554.9	8171.0	9272.9	10770.3	12205.6	12572.9	12527.7	11787.4
60°	4300.2	4430.2	4803.1	5515.1	7266.9	8719.1	10612.1	12572.9	13290.5	13256.6	12459.9
62.5°	3599.5	3639.1	3904.7	4520.6	6102.8	8018.4	10256.1	12770.7	13940.4	13917.8	13064.5
65°	2898.8	2904.5	3147.5	3661.7	4978.3	7148.2	9651.5	12697.2	14432.0	14443.3	13499.6
67.5°	2237.7	2265.9	2486.3	2876.2	3955.5	6018.0	8786.9	12199.9	14437.6	14465.9	13251.0
70°	1548.3	1570.9	1904.3	2282.9	3057.1	4797.5	7617.2	10883.3	13251.0	13273.6	11877.9
72.5°	1090.6	1101.9	1457.9	1825.2	2390.3	3616.5	5746.8	9001.6	11295.8	11312.8	9990.5
75°	813.7	825.0	1028.4	1384.4	1830.8	2503.3	3927.3	6893.9	9024.2	9024.2	7888.4
77.5°	576.4	582.0	666.8	955.0	1220.6	1689.6	2362.0	4514.9	6622.7	6634.0	5746.8
80°	389.9	395.6	435.1	644.2	762.8	915.4	1282.7	2367.7	4175.9	4192.8	3650.4
82.5°	203.4	214.7	243.0	327.7	384.3	508.6	661.1	1203.6	2311.2	2356.4	2192.5
85°	79.1	79.1	90.4	107.4	141.3	197.8	305.1	457.7	1045.4	1079.3	966.3
87.5°	28.3	28.3	33.9	33.9	39.6	45.2	50.9	67.8	118.7	118.7	113.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P841796

CATALOG NUMBER: ARCH4-230-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0	6148.0
2.5°	6091.5	6091.5	6063.2	6074.5	6068.9	6057.6	6046.3	6063.2	6046.3	6006.7	6001.1
5°	6102.8	6091.5	6046.3	6040.6	6023.7	6001.1	5972.8	5984.1	5955.9	5922.0	5916.3
7.5°	6108.4	6085.8	6023.7	6001.1	5967.2	5922.0	5876.8	5876.8	5837.2	5803.3	5797.7
10°	6097.1	6068.9	5984.1	5938.9	5876.8	5809.0	5746.8	5729.9	5684.6	5645.1	5645.1
12.5°	6102.8	6063.2	5955.9	5882.4	5797.7	5712.9	5633.8	5611.2	5571.6	5532.1	5526.4
15°	6136.7	6080.2	5944.6	5848.5	5724.2	5628.1	5543.4	5526.4	5492.5	5464.3	5464.3
17.5°	6170.6	6097.1	5927.6	5792.0	5639.4	5532.1	5453.0	5453.0	5430.4	5413.4	5413.4
20°	6187.6	6102.8	5893.7	5712.9	5537.7	5424.7	5351.3	5362.6	5356.9	5351.3	5351.3
22.5°	6227.1	6114.1	5865.5	5639.4	5430.4	5311.7	5243.9	5260.8	5255.2	5255.2	5260.8
25°	6289.3	6142.4	5842.9	5571.6	5328.6	5198.7	5125.2	5136.5	5136.5	5136.5	5136.5
27.5°	6374.0	6198.9	5837.2	5509.5	5226.9	5080.0	4989.6	4989.6	4967.0	4972.7	4978.3
30°	6504.0	6306.2	5848.5	5453.0	5119.6	4933.1	4825.7	4808.8	4803.1	4814.4	4820.1
32.5°	6662.2	6453.1	5916.3	5413.4	5006.6	4769.2	4633.6	4628.0	4611.0	4611.0	4611.0
35°	6860.0	6594.4	5978.5	5407.8	4893.5	4594.1	4447.1	4430.2	4390.6	4373.7	4373.7
37.5°	7114.3	6814.8	6051.9	5368.2	4797.5	4424.5	4249.4	4192.8	4147.6	4142.0	4142.0
40°	7425.1	7063.4	6159.3	5323.0	4695.8	4249.4	4017.7	3921.6	3927.3	3949.9	3949.9
42.5°	7792.4	7368.6	6294.9	5300.4	4548.8	4068.5	3746.4	3633.4	3673.0	3695.6	3701.2
45°	8221.8	7730.2	6447.5	5272.1	4413.2	3865.1	3458.3	3317.0	3333.9	3339.6	3345.2
47.5°	8719.1	8131.4	6605.7	5249.5	4260.7	3610.8	3141.8	2955.3	2949.7	2915.8	2927.1
50°	9239.0	8555.2	6769.6	5210.0	4074.2	3311.3	2808.4	2588.0	2542.8	2492.0	2497.6
52.5°	9792.7	8990.3	6922.2	5147.8	3842.5	3006.2	2492.0	2254.6	2164.2	2107.7	2119.0
55°	10403.0	9436.7	7069.1	5051.8	3599.5	2701.1	2209.4	1966.5	1853.4	1808.2	1813.9
57.5°	10962.4	9866.2	7176.4	4933.1	3333.9	2424.2	1960.8	1723.5	1650.0	1644.4	1650.0
60°	11504.9	10227.8	7221.6	4769.2	3062.7	2169.9	1729.1	1548.3	1497.4	1525.7	1531.4
62.5°	11962.6	10459.5	7199.0	4548.8	2785.8	1926.9	1542.7	1412.7	1378.8	1435.3	1440.9
65°	12228.2	10533.0	7040.8	4232.4	2486.3	1689.6	1367.5	1226.2	1209.3	1243.2	1260.1
67.5°	11877.9	10075.3	6611.4	3797.3	2152.9	1469.2	1198.0	1084.9	1056.7	1084.9	1084.9
70°	10527.3	8730.4	5594.2	3107.9	1785.6	1254.5	1039.7	960.6	938.0	960.6	955.0
72.5°	8769.9	7261.2	4407.6	2424.2	1407.0	1056.7	904.1	830.7	808.1	785.5	774.2
75°	6803.5	5515.1	3198.3	1780.0	1062.3	847.6	757.2	689.4	632.9	655.5	644.2
77.5°	4984.0	3870.8	2265.9	1231.9	762.8	655.5	593.3	542.5	502.9	548.1	542.5
80°	3209.6	2503.3	1514.4	825.0	525.5	457.7	435.1	406.9	446.4	582.0	593.3
82.5°	1960.8	1587.9	904.1	536.8	344.7	305.1	282.5	282.5	457.7	502.9	508.6
85°	875.9	842.0	491.6	276.9	192.1	175.2	158.2	203.4	186.5	135.6	141.3
87.5°	141.3	146.9	107.4	96.1	73.5	73.5	56.5	39.6	28.3	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)